

Job Risk Analysis																		
Name(s) of Risk Team Members: J. Bruce, P. Cirmigliaro, P. Folk, N. Wade				Point Value → Parameter ↓		1		2		3		4		5				
Job Title: Electrical Working Hot Job Number or Job Identifier: JRA 6-07				Frequency (B)		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift				
Job Description: Shut off Royal switch				Severity (C)		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability				
Training and Procedures List (optional):				Likelihood (D)		Extremely Unlikely		Unlikely		Possible		Probable		Multiple				
Approved by: <i>E. Lessard</i> Date: 4-6-2007 Rev. #: 0																		
Stressors (if applicable, please list all):				Reason for Revision (if applicable):						Comments:								
				Before Additional Controls										After Additional Controls				
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction		
Work within building 912	Radiation	Procedures, training, permits.	N	2	3	1	1	6										
Use man lift to get to Royal on elevated cat walk.	Fall from height	Procedures, training, work planning, use of PPE (lanyards).	N	1	3	4	2	24										
Use man lift to get to Royal on elevated cat walk.	Fall from height	Procedures, training, work planning, use of PPE (lanyards).	N	1	3	4	2	24										
Open door to royal switch	Overexertion – injuries caused by excessive lifting, pushing and pulling.	Training, work planning.	N	2	3	1	1	6										
Open door to royal switch	Exposure to electrical shock (480 VAC)	Procedures, training, work planning, use of PPE as per NFPA 70E, standby person for emergency response.	N	1	3	5	2	30	See Note 1									
Open door to royal switch	Exposure to electrical Arc flash	Procedures, training, work planning, use of PPE as per NFPA 70E, standby person for emergency response	N	1	3	5	2	30	See Note 1									

Operate switch	Exposure to electrical shock (480 VAC)	Procedures, training, work planning, use of PPE as per NFPA 70E, standby person for emergency response.	N	1	3	5	2	30	See Note 1							
Operate switch	Exposure to electrical Arc flash	Procedures, training, work planning, use of PPE as per NFPA 70E, standby person for emergency response.	N	1	3	5	2	30	See Note 1							
Verify that power has been de-energized.	Exposure to electrical shock (480 VAC)	Procedures, training, work planning, use of PPE as per NFPA 70E, standby person for emergency response.	N	1	3	5	2	30	See Note 1							
LOTO Royal	None	Remove Kirk key, return to owner.	N	1	3	0	0	0								

Further Description of Controls Added to Reduce Risk:

NOTE 1: Full compliance with NFPA 70E was adopted by BNL. NFPA 70E prescribes protective clothing to protect against shock and arc blast; thus reducing the severity and likelihood of an injury. It also prescribes training, which is currently fulfilled by taking the Electrical Safety 1 and by attending the C-AD 3-hour classroom course on electrical safety rules and PPE.

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable